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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,416	12/09/2003	Robert B. Nilsen	1571.2029-005	3928
21005	7590	08/23/2007	EXAMINER	
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.			PHAN, JAMES	
530 VIRGINIA ROAD			ART UNIT	PAPER NUMBER
P.O. BOX 9133			2872	
CONCORD, MA 01742-9133				
MAIL DATE		DELIVERY MODE		
08/23/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/731,416	ROBERT B. NILSEN
	Examiner	Art Unit
	James Phan	2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 16 May 2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 4-13,15-40,43-68,70-81 and 83-88 is/are pending in the application.
- 4a) Of the above claim(s) 4-13,15,30-40,43,51-68,70-81 and 83-88 is/are withdrawn from consideration.
- 5) Claim(s) 16-29 is/are allowed.
- 6) Claim(s) 44 is/are rejected.
- 7) Claim(s) 45-50 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date: _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date: _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Election/Restrictions

This application contains claims 4-13, 15, 30-40, 43, 51-68, 70-81 and 83-88 are drawn to an invention nonelected with traverse in the reply filed on 1/27/06. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

The rejection of claim 44 under 35 USC 102(b) made in the office action mailed 2/15/07 is repeated.

Response to Arguments

Applicant's arguments filed 5/16/07 have been fully considered but they are not persuasive. Applicant has traversed the rejection by arguing (1) that "Since there is little to no direct contact shown between binder layer 30 and those microspheres that are air-backed (e.g., the three microspheres on the left and the one on the right in the upper layer of FIG. 2), binder layer 30 cannot be said to function as wetting-out such microspheres and plays no role whatsoever in the retroreflection.;" and (2) that "Those microspheres that are shown as surrounded or embedded in the binder layer 30 (e.g., the remaining microspheres in the upper layer of FIG. 2) have no air gap." In response the examiner states that the "optical components" stated in the office action are not just microspheres; each of the "optical components" includes a microsphere and a reflecting

layer; that Fig. 2 shows at least one side (front side) of the three optical components on the left and the one on the right in the upper layer is air back and the other side (rear side) of the three optical components on the left and the one on the right is substantially wetted-out; that the argued feature “retroreflection” is irrelevant to the claimed invention because claim 44 does not recite such feature; and that the remaining two optical components does not necessarily have air gap because claim 44 does not recite that all of the components have air gap.

Allowable Subject Matter

Claims 16-29 are allowed.

Claims 45-50 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Phan whose telephone number is (571) 272-2317. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allen B. Stephone can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James Phan/
James Phan
Primary Examiner
Art Unit 2872

JP
Aug. 2007